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### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit:

Examiner: Not Assigned

In re application of:

Jonathan S. Minden

U.S. Application No.: 10/590,106

International Application No.

PCTUS05/05125

I.A. Filing Date: February 18, 2005

Mail Stop: Amendment Commissioner for Patents

P.O. Box: 1450

Alexandria, VA 22313-1450

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COMPOSITIONS AND METHODS FOR THE REVERSIBLE CAPTURE OF

**BIOMOLECULES** 

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### **PATENT**

### **060213CIPPCTUS**

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# INFORMATION DISCLOSURE STATEMENT

Pittsburgh, Pennsylvania 15222-2312 May 23, 2007

Mail Stop: Amendment **Commissioner for Patents** P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Applicants, in accordance with their duty of disclosure pursuant to 37 C.F.R. §1.56, hereby advise the United States Patent and Trademark Office of the references listed on the accompanying Form PTO/SB/08A Information Disclosure Statement by Applicant.

Applicants believe the Information Disclosure Statement fully complies with the disclosure requirements of 37 C.F.R. §§ 1.56, 1.97, and 1.98, inasmuch as under the revised rule 37 C.F.R. § 1.98 there is no requirement for Applicants to explain the relevance of the references cited in an Information Disclosure Statement unless those references are not in the English language. The relevance of any foreign language reference, if any, is indicated in the English abstract or English translation thereof.

Applicants note that although the cited references may be relevant to the examination of the above-referenced application, under 37 C.F.R. § 1.97(h), the filing of this Information Disclosure Statement "shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in § 1.56(b)."

Applicants further note that the filing of this Information Disclosure

Statement is not an admission that the references cited herein constitute prior art under

35 U.S.C. §§ 102-103 with respect to the captioned application. Applicants reserve the
right to establish the scope of the invention, as defined by the claims, the patentability
of the claimed invention over any of the information provided herein, and/or to provide
that this information may not be prior art, and/or to prove that the information may not
be enabling for the teachings purportedly offered.

Pursuant to 37 C.F.R. § 1.97(b), Applicants submit that no fee is necessary for consideration of this Information Disclosure Statement. Nevertheless, the Commissioner is hereby authorized to charge any additionally required fees deemed necessary for consideration of this Information Disclosure Statement to Account No. 11-1110.

Respectfully submitted,

May 23, 2007

Date

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				Complete if Known		
Substitute for fo	orm 1449A/PTO			Application Number	10/590,106	
				International Filing Date	February 18, 2005	
	MATION DIS			First Named Inventor	Jonathan S. Minden	
STATEMENT BY APPLICANT				Art Unit		
				Examiner Name	Not Assigned	
(use as many sheets as necessary)						
Sheet	1	of	2	Attorney Docket Number	060213CIPPCTUS	

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Document Number  Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan Figures Appear	
		3,715,278	02-06-1973	Miller		
		6,372,813	04-16-2002	Johnson, et al.		
		4,348,479	09-07-1982	Kinsella & Shetty		
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		2,196,768	04-1940	Hiatt		
		US-2004-0152880-A1	08-05-2004	Minden		
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		FOREIGN F	PATENT DOC	UMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document  Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		WO 00/75164 A1	12-14-2000	Mirus Corporation		1
		EP 0 226 470	12-12-1986	Unilever PLC		
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INFORM	ATION DISC	CLOS	SURE	First Named Inventor	Jonathan S. Minden	
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				Examiner Name	Not Assigned	
(use as many sheets as necessary)			ssary)			
Sheet 2		of	2	Attorney Docket Number	060213CIPPCTUS	

		NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published						
		Magil, et al., "A New Tool for Peptide Separation," Peptide Research, Vol. 1, No. 2, pp. 100-104 (1988).						
		Villain, et al., "Covalent capture: a new tool for the purification of synthetic and recombinant polypeptides," <a href="https://chemistry.org/2004">Chemistry and Biology</a> , Vol. 8, No. 7, pp.673-679 (2001).						
		Singh, et al., "A Solid Support for Affinity Chromatography that Covalently Binds Thiol Groups Via a Cleavable Connector Arm," <u>Arch. Biochem. Biophys.</u> , Vol. 23, No. 2, pp.774-779 (1980).						
		Atassi, et al., "Reaction of Proteins with Citraconic Anhydride," <u>Methods in Enzymology</u> , Vol. 49, pp. 546-553 (1972).						
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		Shetty, et al., "Ready Separation of Proteins from Nucleoprotein Complexes by Reversible Modification of Lysine Residues," <u>Biochemical Journal</u> , Vol. 191, pp. 269-272 (1980).						
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		Schmincke-Ott, E. and Bisswanger, H., "A Simple and Gentle Method for Concentrating Protein Solutions," Prep. Biochem., Vol. 10, p.69 (1980). Abstract						
		Heller, et al., "Controlled Drug Release by Polymer Dissolution: Partial Esters of Maleic Anhydride Copolymers – Properties and Theory," <u>J. Appl. Polym. Sci.</u> , Vol. 22, pp. 1991-2009 (1978).						

I Examiner	Date	
1		
I Signature	Considered	
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